


[Home](#) > [Community and Environment](#) > [Drinking Water](#) > [Water System Design and Planning](#) > [Water Use Efficiency](#)


## Annual Water Use Efficiency Performance Report Form

Please refer to the *Getting Started: Water Use Efficiency Guidebook*

Today's Date: 1/25/2023

### General System Information

System Name: BONNEY LAKE WATER DEPARTMENT CITY  
 System ID #: 07650  
 County: PIERCE  
 Your Name: Jim Miracle  
 Your Title: Water Distribution lead  
 Your Email Address: miraclej@cobl.us  
 Your Phone Number: (253) 261-7404

### Meter Installation Information

Estimate the percentage of metered connections: 100%

If not 100% metered - Did you submit a meter installation plan to DOH? Y

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

### Production, Authorized Consumption, and Distribution System Leakage Information

Reporting Year: 2022  
 12-Month WUE Reporting Period: January 01, 2022 to December 31, 2022  
 Incomplete or missing data for the year? No  
 If yes, explain:

Distribution System Leakage Summary			
Total Water Produced and Purchased (TP) - Annual Volume	1,288,016,886	Gallons	
Authorized Consumption (AC) - Annual Volume	1,202,095,760	Gallons	
Distribution System Leakage - Annual Volume <b>TP - AC</b>	85,921,126	Gallons	
Distribution System Leakage - Percent DSL = $[(TP - AC) / TP] \times 100$	6.7	%	
3-Year Annual Average - Percent	7.3	% 2020, 2021, 2022	

### Goal-Setting Information

Date of most recent public forum: March 03, 2018

Has goal been changed since last WUE report? No

Demand Side Goal: Achieve additional system wide average water use reduction of 5% by the year 2010 and 10% by the year 2024 with 2004 as the base year. Increase awareness among all water users of the value and importance of conserving water and all of the methods available to achieve reductions in water use.

Demand Side Goal Progress: The initial baseline per capita consumption in 2004 was 100 GPD. In 2022 the per capita consumption was 84 GPD. The five-year average per capita consumption is 85 GPD. The City continues to educate customers and encourage conservation through the annual Consumer Confidence Report (CCR), utility bill stuffers, printed news sources, and social media outlets including the City website, Facebook, and the City Blog. The City continues to provide customers with water consumption history on their utility bills and notifies customers of higher-than-normal consumption during the monthly reading and billing cycles. The City continues to use a four-tier rate structure during higher demand summer months, and a two tier rate structure during the winter months. With the continued efforts to implement an AMR/AMI metering system, the City is able to provide customers with detailed account information and educate them on how and when their water is used. The City also conducts an annual leak detection survey and alerts customers to service line leaks detected during the survey.

## Additional Information:

.In 2022 the City saw a slight increase in the DSL from 6.15% up to 6.67%. The City continues to budget \$350,000 annually to replace water meters with new AMR meters. The budget amount allows for the replacement of approximately 10% of the systems meters annually. The City continues to aggressively follow up on 'zero consumption' meters identified during monthly read and billing cycles and replaces all that are found to be faulty as soon as possible. The City also continues conducting an annual leak detection survey covering approximately 35-40% of the entire distribution system. The survey is a 'point to point' survey that listens to all appurtenances including individual service lines, meters, fire hydrants, valves, underground blow-offs, and air release valves. City staff immediately performs repairs as leaks are identified. The City continues to analyze data related to water main failures and is scheduling replacements based on these results, as budgetary limitations will allow. City maintenance Staff also identifies problematic areas prone to service line failures, and proactively replaces these service lines.

## Supply Side Goal Progress:

The city has been actively replacing water meter over the last 7 year and only has 2,500 meter left for total replacement. In 2022 the leak detection survey found a total of 23 leaks on the city side of the meter. With an estimated water loss of 32.65 GPM, 47016 GPD, 1410480 Gallon per month, and 16925760 Gallons per year. The city has a/so been performing their own leak detection in house as time permits

Water Level Measurements			
Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January	1/11/2022	18.0	18.0
February	2/11/2022	21.1	21.1
March	3/10/2022	21.4	21.4
April	4/1/2022	21.7	21.7
May	5/11/2022	21.1	21.1
June	6/10/2022	21.2	21.2
July	7/12/2022	16.9	16.9
August	8/11/2022	14.2	14.2
September	9/12/2022	13.7	13.7
October	10/11/2022	16.6	16.6
November	10/11/2022	17.5	17.5
December	12/12/2022	16.9	106.9

Well tag Id number: Source 13 (Tacoma Point 6)  
 Well Depth: 301.0  
 Water level accuracy: <1  
 Completion type: Cased open ended with perforations  
 Location coordinates: (47.24728514, -122.1879859 <1ft5)  
 Water level parameter name: Depth below ground surface  
 Elevation of top of casing OR elevation of measuring point: 301  
 Maximum daily water demand for the previous year: 7,570,000

Monthly total water produced for the previous year	
Month	Volume of Water Produced in gallons
January	81,939,400
February	71,771,400
March	75,743,135
April	83,934,970
May	78,533,500
June	113,195,500
July	166,138,127
August	193,440,492
September	163,669,362
October	101,529,800
November	68,632,200

December	89,489,000
----------	------------

Water shortage response:

- 1. Did you activate any level of water shortage response plan the previous year?

☒ Yes ☐ No ☐ There was no need to

- 2. If you activated a water shortage response plan the previous year, what level did you activate? Check all that apply

☐ Advisory Conservation ☐ Voluntary Conservation ☐ Mandatory Conservation ☐ Rationing ☐ Other

- 3. What factors caused your water shortage the previous year? Check all that apply

☐ Drought ☐ Fire ☐ Landslides ☐ Earthquakes ☐ Flooding ☐ Water Supply limitations ☐ Other

[<< Back](#)

Please click 'Back' if you need  
to make changes.

[Submit >>](#)

[Cancel](#)

#### Contact Us

[Agency Contacts](#)

[Locations and Directions](#)

[Consumer Assistance](#)

[Email Consumer Assistance](#)


[800-525-0127](#)

[TTY Users dial 711](#)


[Access Washington](#)

[Contact our Web team](#)

#### Social Media

 [Find us on Facebook](#)

 [Follow @WA\\_DeptofHealth](#)

 [See us on YouTube](#)

#### Notices

[Privacy Notice](#)

[Copyright Statement](#)

#### Publications

[Health Education Resource Exchange](#)

[Publication List](#)

#### Alternate Format Requests

For people with disabilities, Web document  
formats are available on request. To submit  
please contact: Web Management Team.